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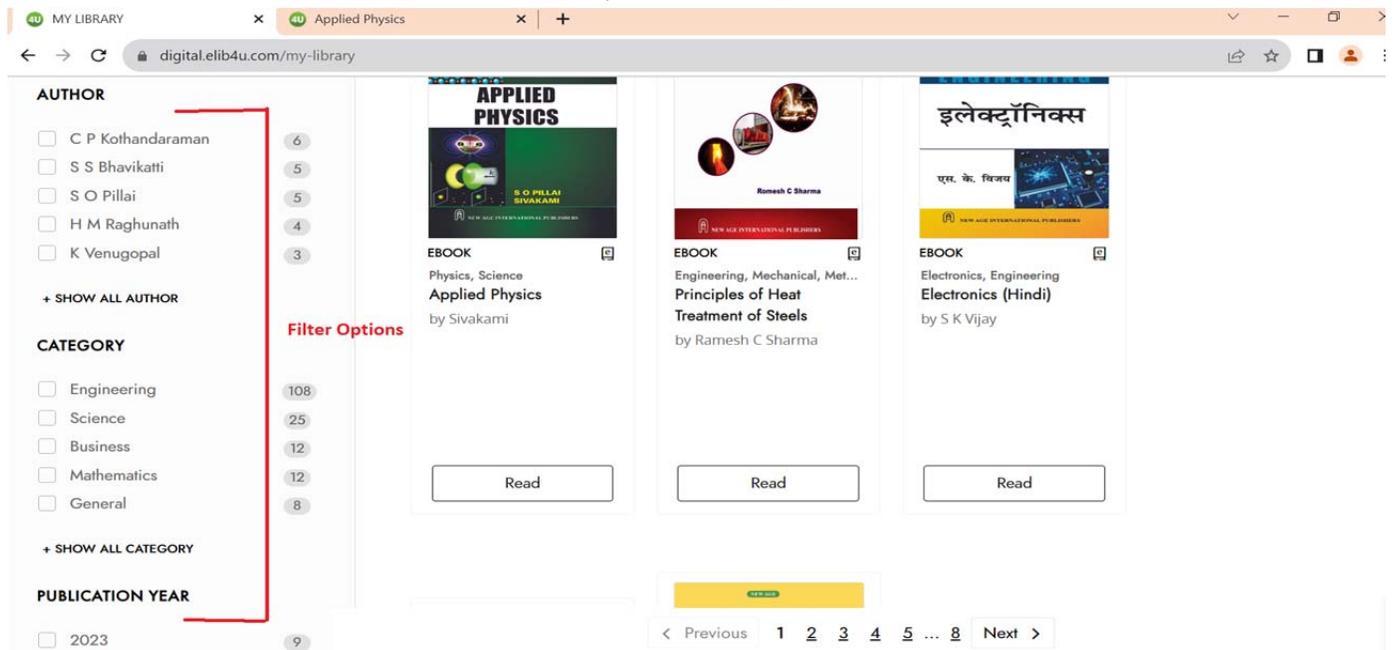
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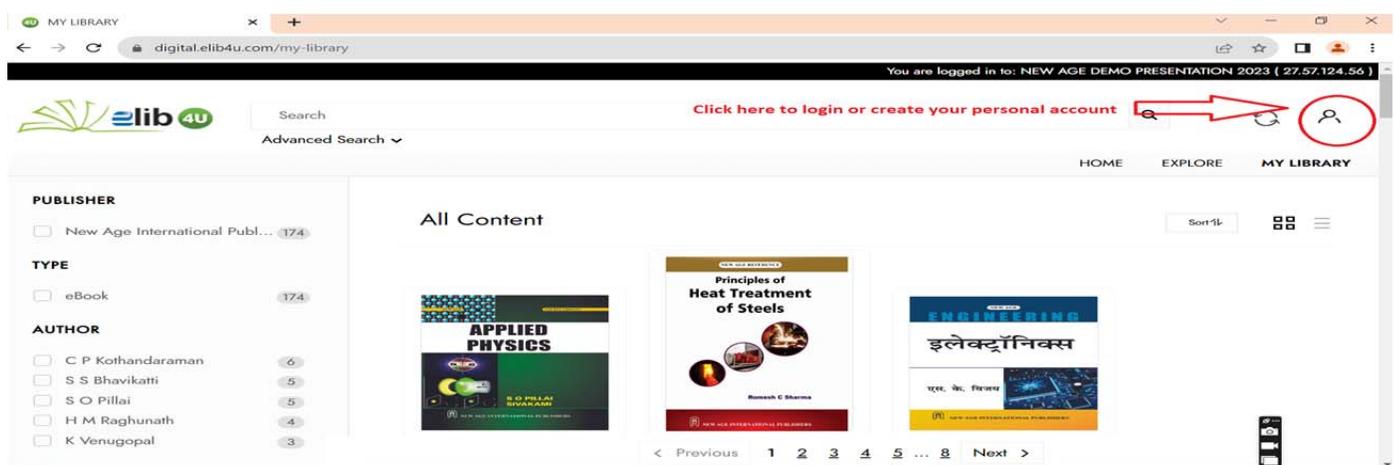
**Bottom Screenshot: Applied Physics**

- Filters: TYPE (eBook 174), AUTHOR (C P Kothandaraman 6, S S Bhavikatti 5, S O Pillai 5, H M Raghunath 4, K Venugopal 3), CATEGORY (Engineering 108, Science 25, Business 12, Mathematics 12, General 8)
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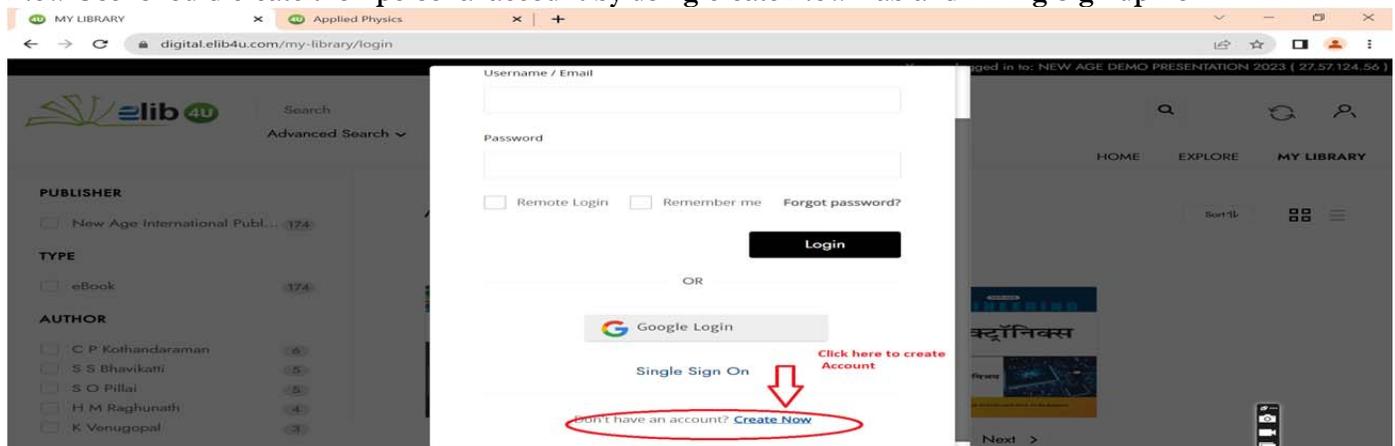
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**2.1 ELEMENTS OF STATISTICAL MECHANICS**

**2.1.1 INTRODUCTION**

Just as the failure of classical mechanics made it necessary to establish quantum mechanics for the description of nature on the atomic scale, the failure of Maxwell-Boltzmann statistics to provide correct solutions for many problems involving fundamental particles led to the development of new systems of quantum statistics. In the present work we will reexamine the statistical bases underlying the Maxwell-Boltzmann statistics and introduce modifications which lead to the Fermi-Dirac statistics, applicable to all fundamental particle with spin one-half, and to Bose-Einstein statistics, applicable to particles which have zero or integer spin.

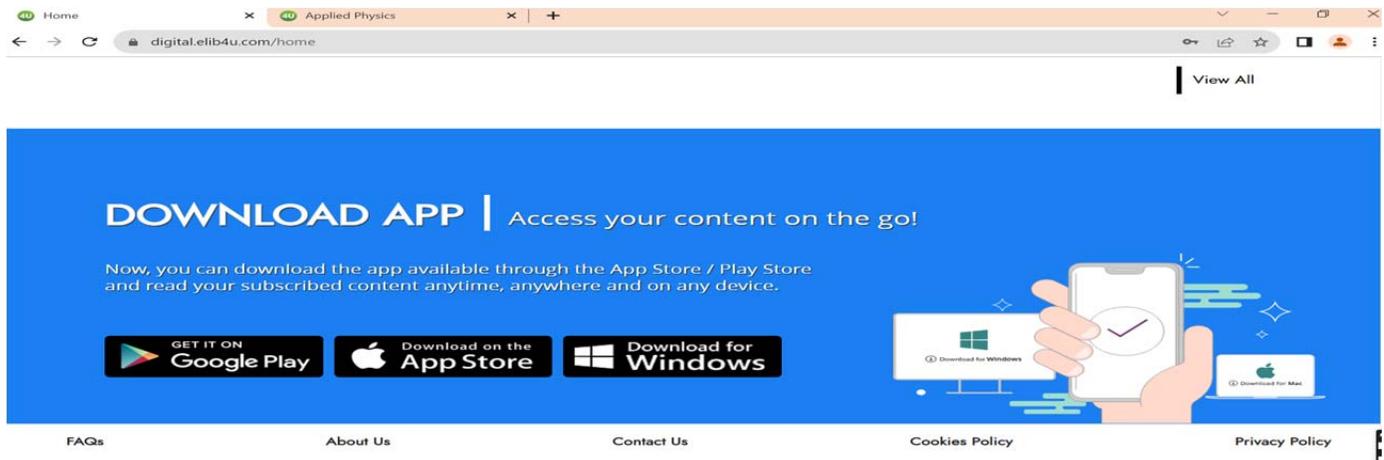
**2.1.2 METHODS OF STATISTICAL MECHANICS**

There are three kinds of identical particles:

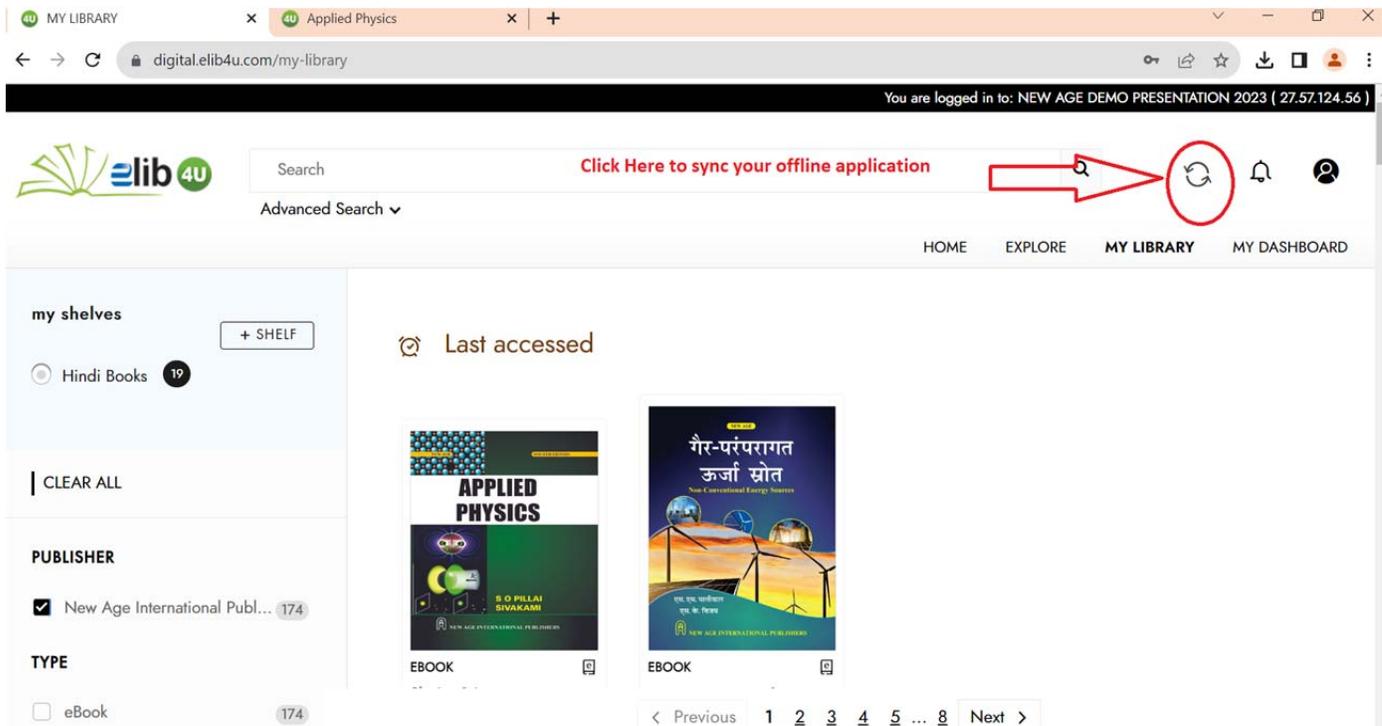
(i) Identical particles of any spin which are so much separated in the assembly that they can be distinguished from one another. The molecules of a gas are particles of this kind. The Maxwell-Boltzmann distribution holds good

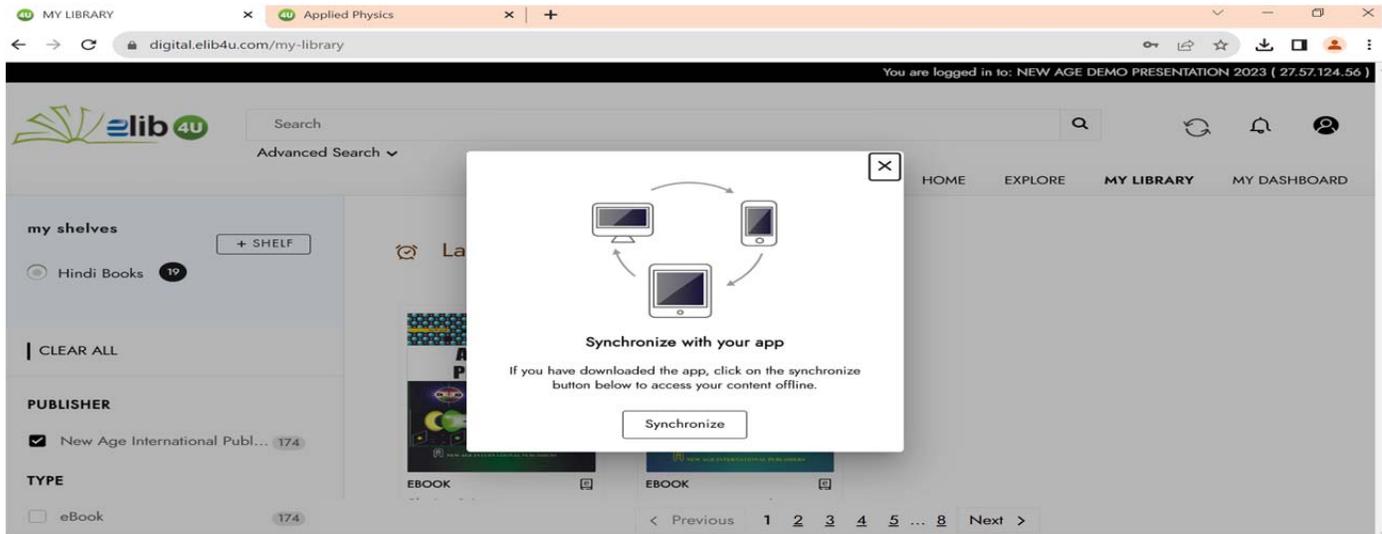
Chapter:  Page number: 81 of 471

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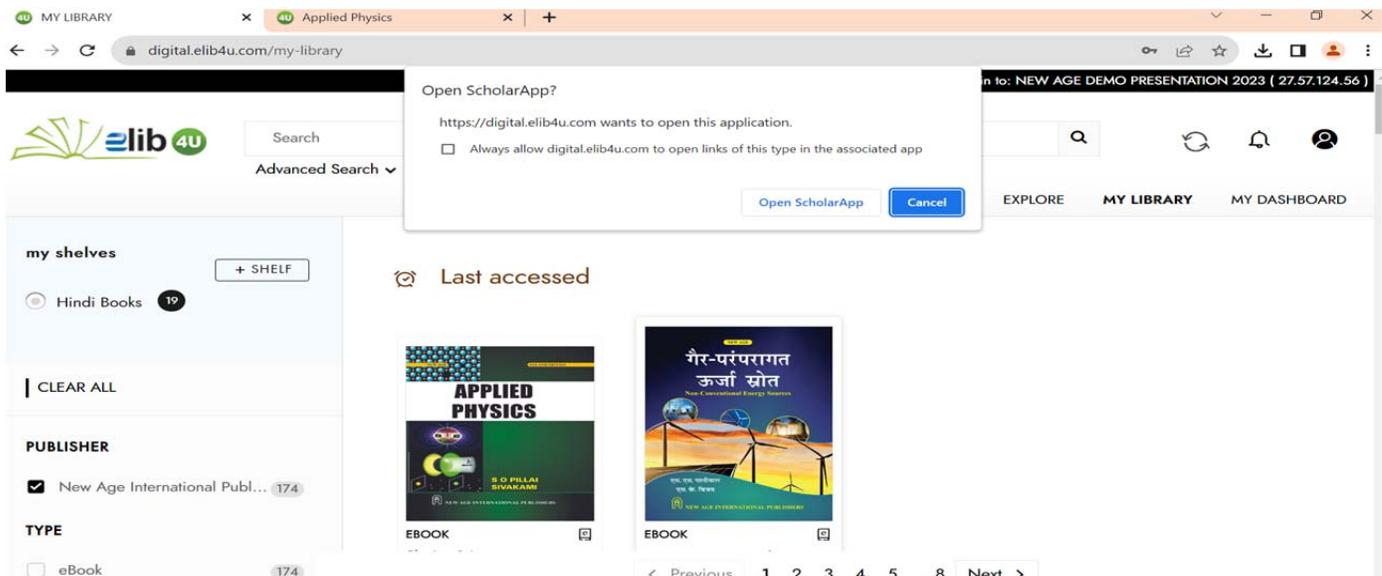


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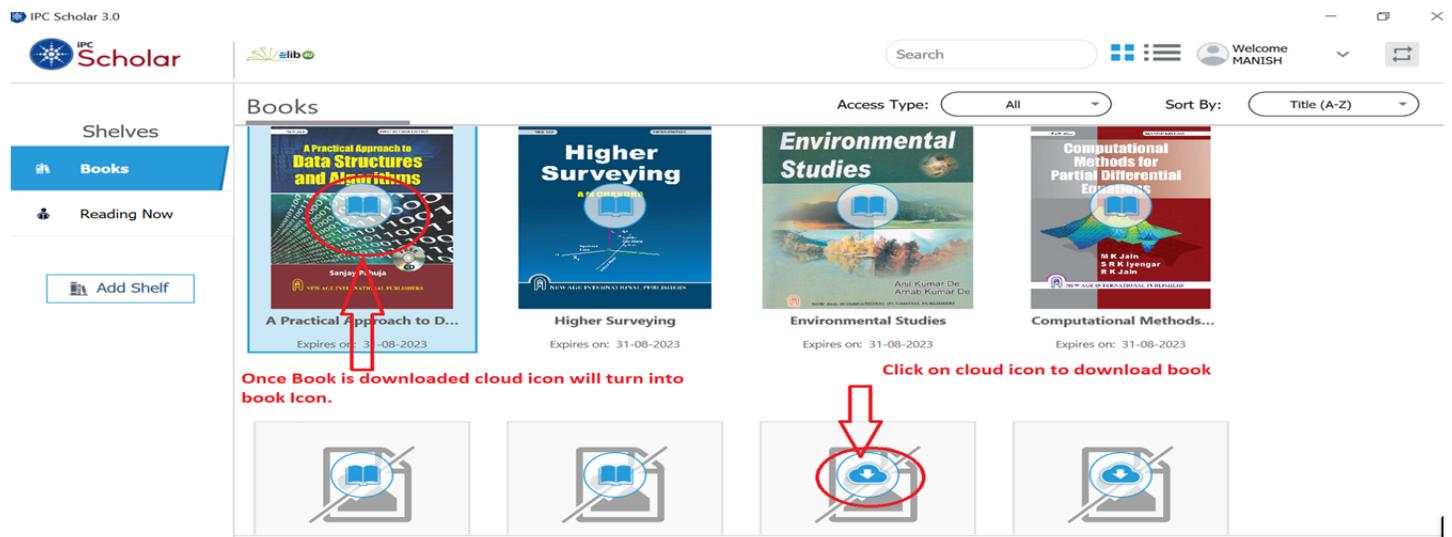




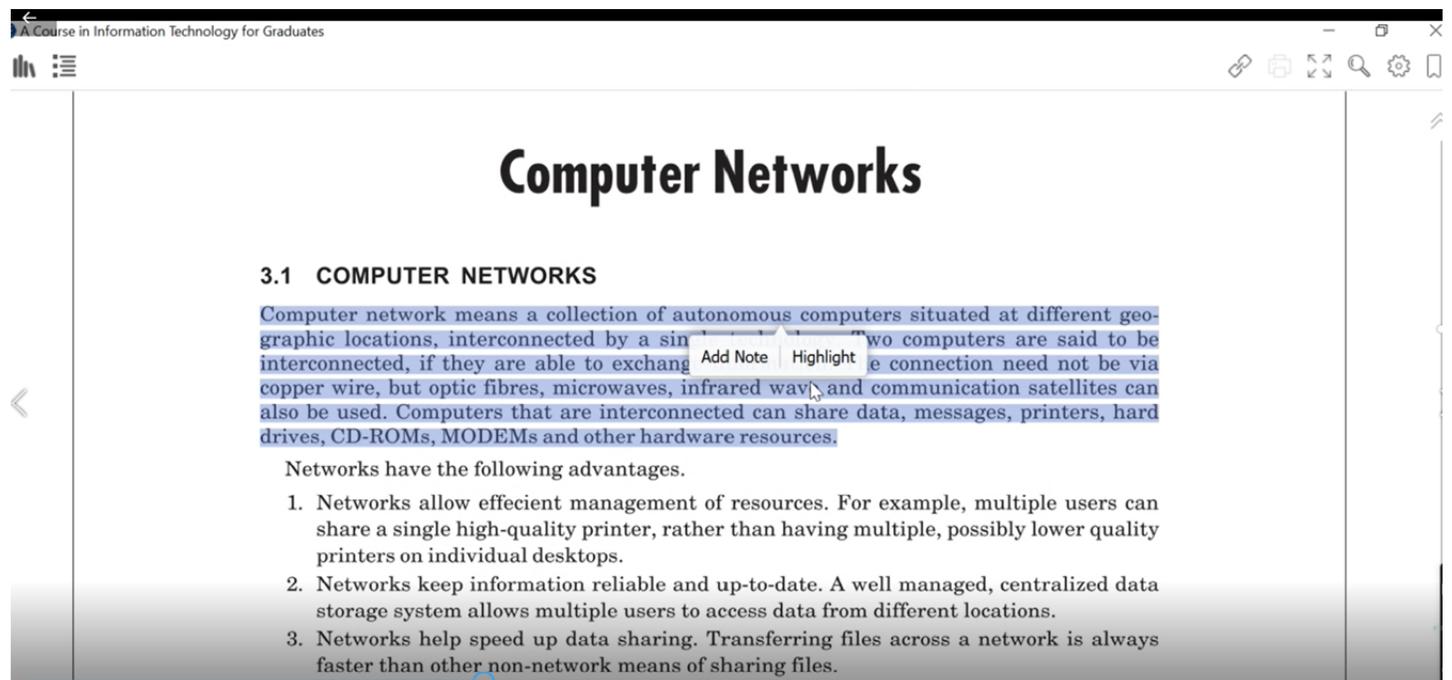
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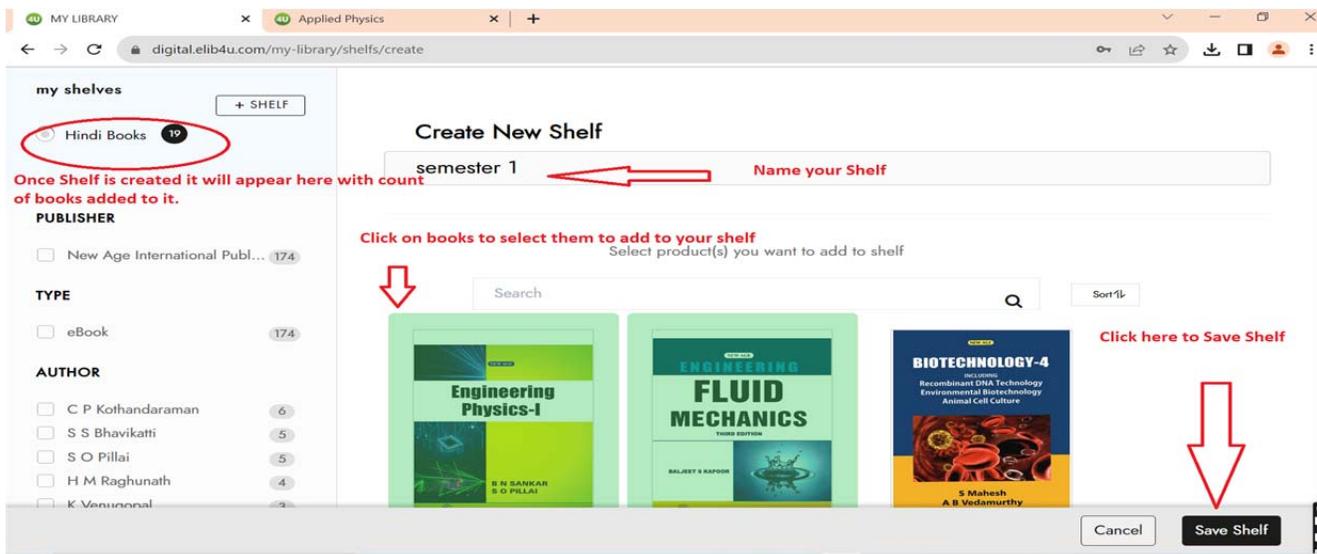
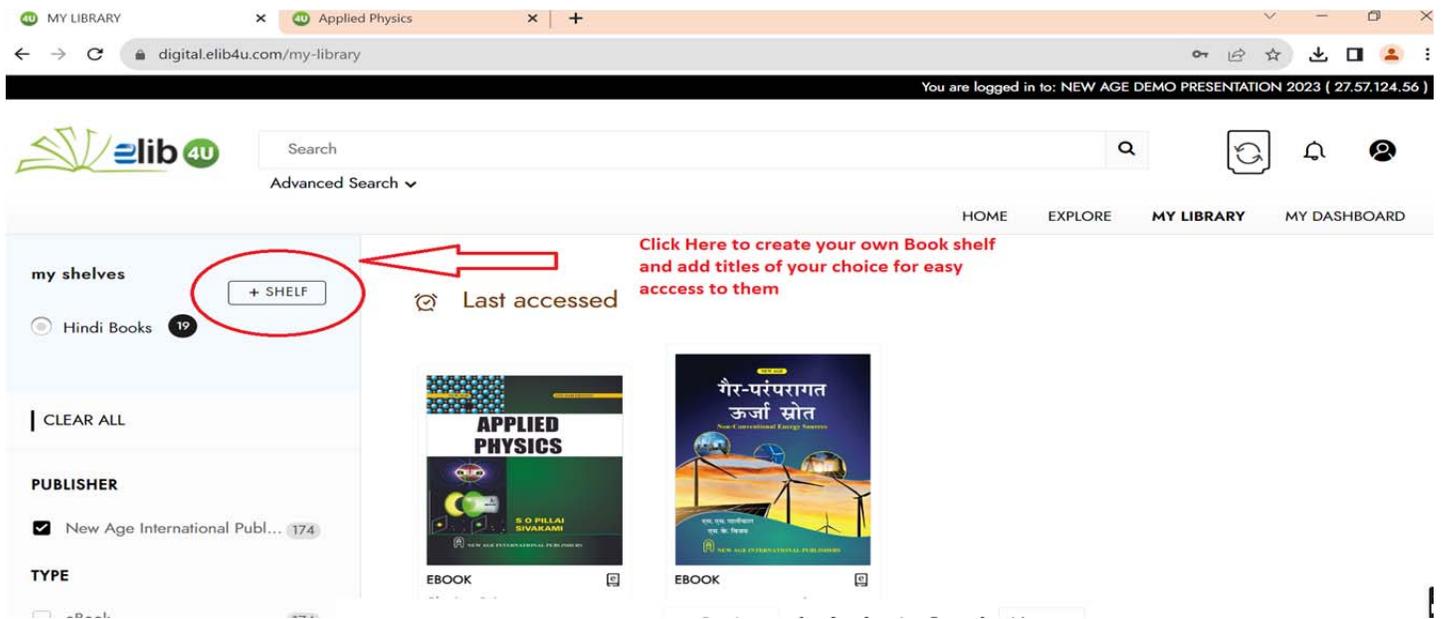
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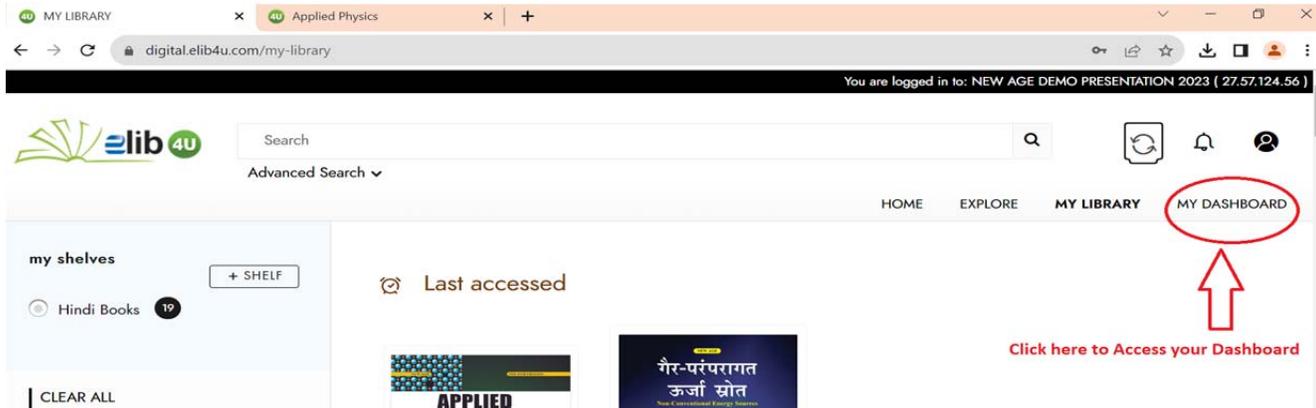
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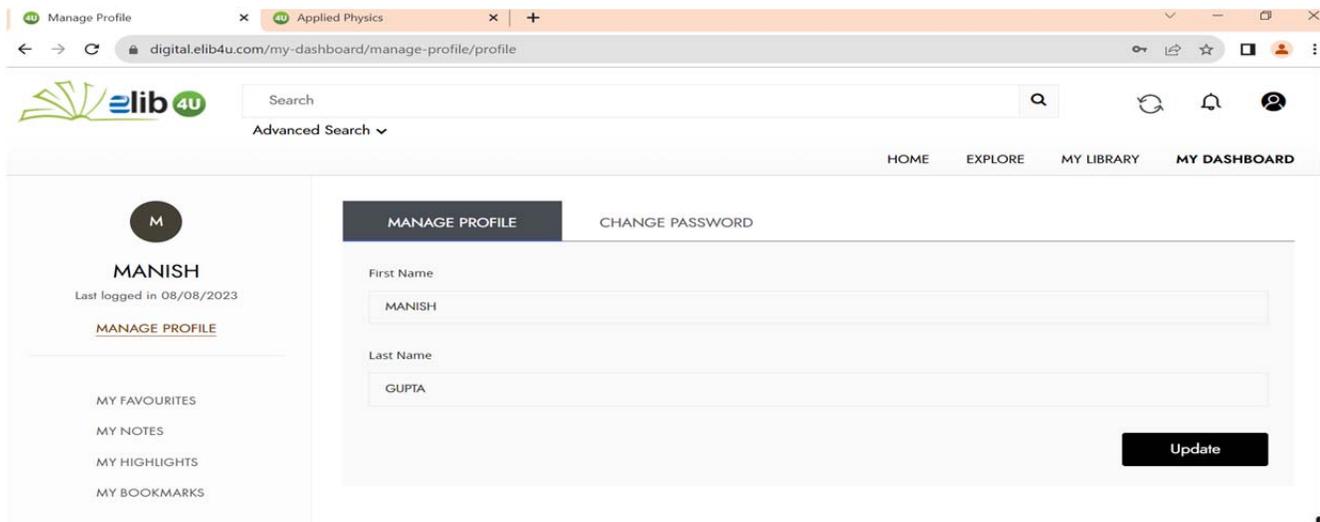
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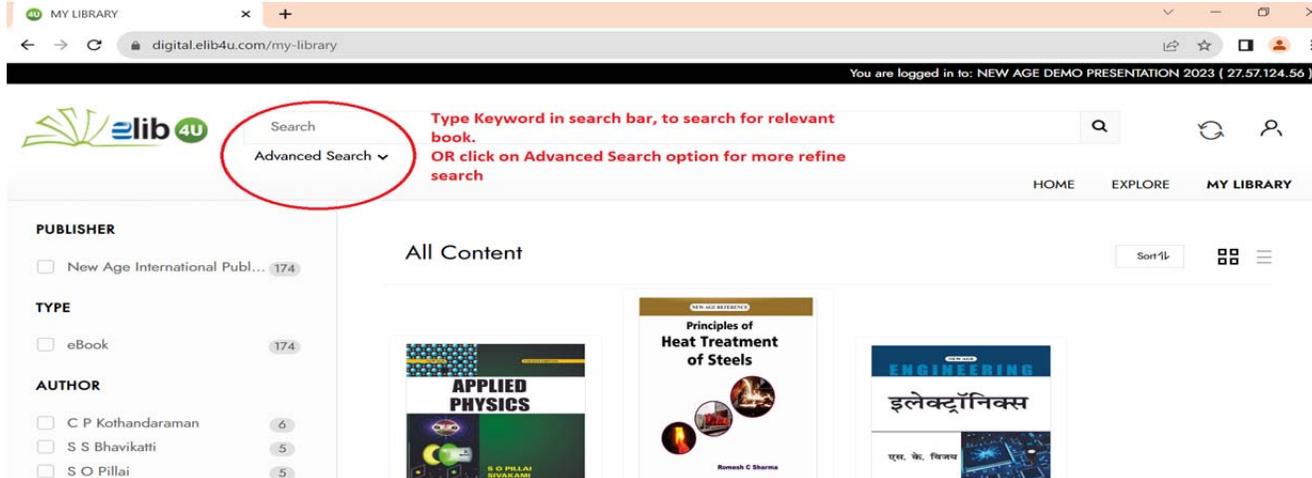
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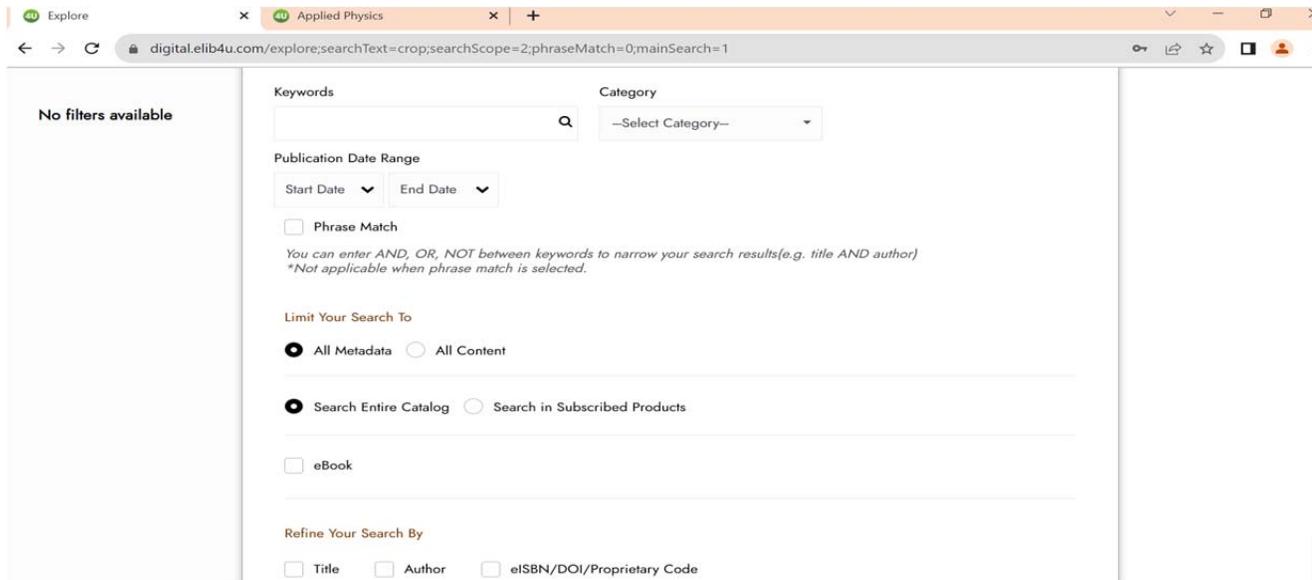
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